

Applicant: Dietmar BAUMANN et al.
Docket No. R.306470
Preliminary Amdt.

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-15. (Canceled)

16. (New) A self-boosting electromechanical friction brake, comprising
- a friction brake lining,
 - an electromechanical actuation device with which the friction brake lining can be pressed for braking against a brake body to be braked,
 - a ramp mechanism that extends at an angle to the brake body and that braces the friction brake lining on being pressed against the brake body, the friction brake lining being supported displaceably on the ramp mechanism by roller bodies, and
 - a positive controller for the roller bodies, which prevents the roller bodies from leaving their raceways.

17. (New) The friction brake in accordance with claim 16, wherein the positive controller comprises means preventing sliding of the roller bodies.

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18. (New) The friction brake in accordance with claim 16, wherein the positive controller comprises an end stop for the roller bodies, which end stop restricts the travel of the roller bodies.

19. (New) The friction brake in accordance with claim 16, wherein the positive controller comprises means positively moving the roller bodies upon a displacement of the friction brake lining.

20. (New) The friction brake in accordance with claim 19, wherein the positive controller comprises a gear wheel meshing with a rack, and wherein the gear wheel is connected or fixed to a roller body and the rack is connected or fixed to the friction brake lining.

21. (New) The friction brake in accordance with claim 20, wherein the gear wheel meshes with two racks, one rack being connected to the friction brake lining and the other being fixed.

22. (New) The friction brake in accordance with claim 16, further comprising a roller body cage joining the roller bodies, or a group of roller bodies together, the roller body cage keeping the roller bodies at their spacing from one another and in their position relative to one another.

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23. (New) The friction brake in accordance with claim 22, wherein the positive controller engages the roller body cage.

24. (New) The friction brake in accordance with claim 16, wherein at least one roller body guides the friction brake lining transversely to its displacement direction in a statically determined way.

25. (New) The friction brake in accordance with claim 24, wherein two roller bodies guide the friction brake lining transversely to its displacement direction in a statically determined way; and wherein further roller bodies guide the friction brake lining nontransversely to its displacement direction.

26. (New) The friction brake in accordance with claim 24, wherein the roller body is a ball, which is guided in two diametrically opposed spherical channels, and which in each spherical channel is located at two points, one on each side of an imaginary lowermost line of the spherical channels.

27. (New) The friction brake in accordance with claim 24, wherein the roller body is a roller disposed with an inclination transversely to a displacement direction of the friction brake lining.

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28. (New) The friction brake in accordance with claim 27, wherein the friction brake comprises at least two rollers as roller bodies, whose inclinations are counter to one another.
29. (New) The friction brake in accordance with claim 28, wherein the friction brake has three rollers as roller bodies, the three rollers being located at the corners of an imaginary triangle, and the inclinations of radially inner rollers are counter to the inclinations of a radially outer roller.
30. (New) The friction brake in accordance with claim 16, wherein the friction brake is a partly lined disk brake.